

CLAIMS

1. Motor vehicle comprising a passenger compartment, a front compartment, which is arranged in the front of the passenger compartment, a heat exchanger unit, comprising an engine cooling radiator arranged in the area separating the passenger compartment from the front compartment, and a manifold for conveying a flow of air, with an air flow inlet section arranged in front part of the motor vehicle and an air flow outlet section arranged in the rear part of the front compartment, in correspondence to said heat exchanger unit.

2. Motor vehicle according to claim 1 wherein said manifold comprises a hollow variable cross-section structure comprising a bottom face and a pair of side faces.

3. Motor vehicle according to claim 2 wherein said manifold comprises an upper closing face which is fastened to the lid of the engine compartment/boot.

4. Motor vehicle according to claim 2 wherein said manifold comprises an upper closing face which is fastened to said side faces.

5. Motor vehicle according to claim 1 wherein said manifold extends laterally to the engine of the vehicle and over the gearbox.

6. Motor vehicle according to claim 1 wherein it comprises a box for the engine air cleaner which is arranged inside said manifold.

7. Motor vehicle according to claim 1 comprising a set of electric and/or electronic devices supported by said manifold and exposed to the flow of cooling air passing through said manifold.

8. Motor vehicle according to claim 1 comprising a battery arranged so to be cooled by the flow of air passing through said manifold.

9. Motor vehicle according to claim 1 wherein said manifold comprises a calibrated air passage for conveying a flow of air onto the internal combustion engine exhaust pipe.

10. Motor vehicle according to claim 1 comprising an intercooler heat exchanger which is arranged so to be invested on one side by the flow of air passing through said manifold, said intercooler radiator being arranged in correspondence to an opening for evacuating the air from of air crossing said intercooler outside the manifold.